



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

### NORTHERN REGIONAL OFFICE

Molly Joseph Ward  
Secretary of Natural Resources

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David K. Paylor  
Director

Thomas A. Faha  
Regional Director

June 23, 2015

Ms. Cathy C. Taylor  
Director, Electric Environmental Services  
Dominion Resources Services, Inc.  
5000 Dominion Boulevard  
Glen Allen, VA 23060

**Re: Dominion – Possum Point Power Station, Permit #VA0002071**

Dear Ms. Taylor:

Attached is a copy of the inspection report generated from the recon inspection conducted at the Dominion – Possum Point Power Station facility on May 13, 2015. DEQ would like to thank Mr. Jeff Marcell, Mr. Alan Eudye, Mr. Reubin Williams, and Mr. Whitey Pope for their assistance during the inspection.

If you have any questions or comments concerning this report, please feel free to contact me at the Northern Regional Office at 703-583-3905 or [amy.dooley@deq.virginia.gov](mailto:amy.dooley@deq.virginia.gov).

Respectfully,

A handwritten signature in black ink, appearing to read "Amy E. Dooley".

Amy E. Dooley  
Environmental Specialist II


Electronic copy sent:

Permits/DMR File, Compliance Manager, Compliance Auditor, Enforcement – DEQ

00010041

# Virginia Department of Environmental Quality

## RECON INSPECTION REPORT

<b>FACILITY NAME:</b> Dominion Possum Point Power Station	<b>INSPECTION DATE:</b> May 13, 2015	
	<b>INSPECTOR</b> Amy Dooley	
<b>PERMIT No.:</b> VA0002071	<b>REPORT DATE:</b> June 3, 2015	
<b>TYPE OF FACILITY:</b> <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Major <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Minor <input type="checkbox"/> Federal <input type="checkbox"/> Small Minor <input type="checkbox"/> HP <input type="checkbox"/> LP	<b>TIME OF INSPECTION:</b>	1300 Arrival 1600 Departure
	<b>TOTAL TIME SPENT</b>	16hrs
<b>PHOTOGRAPHS:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>UNANNOUNCED INSPECTION?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>REVIEWED BY / Date:</b>  6/4/15		
<b>PRESENT DURING INSPECTION:</b> Susan Mackert, Alan Eudye, Reubin Williams, Whitey Pope, Jeff Marcell		

### **INSPECTION OVERVIEW AND CONDITION OF TREATMENT UNITS**

Upon arrival to the site, DEQ staff stated their purpose for being onsite, which was to conduct a recon inspection of the ash ponds. The guard at the gate attempted to contact someone that would be able to assist DEQ with the site inspection. Upon further coordination, Mr. Marcell was reached and was able to conduct the inspection.

Mr. Marcell indicated that Dominion is currently mobilizing and preparing for the closure of Ash Ponds A, B, C, D, and E.

Ash Pond E was observed to have been dewatered, vegetation stripped from the top layer (approximately 8-10 inches), and dewatering channels cut into the ash. (Photo 1)

Dewatering activities were carried out via a pump on a floating intake within Ash Pond E, which pumps water into Ash Pond D. A pump in the outfall box associated with Outfall 005 pumps any discharging water back into Ash Pond E. As a result, a discharge out of Pond E has not occurred since May 7, 2015. (Photos 2-6)

The metals cleaning waste treatment basin (metals ponds) was observed. The metals-ponds had been pumped into Ash Pond E to the maximum extent practicable and considered "empty" by Dominion. (Photos 7)

Water level observed in Ash Pond D was lower than the riser structure and piping infrastructure associated with dewatering activities in Ash Pond E were observed. (Photos 8 and 9)

Flowing water was heard in Outfall S107; Mr. Marcell indicated it was mostly groundwater, but could also include toe drainage and surface water flow.

Ash Ponds A, B and C were observed. Dominion has sealed the discharge structure at Ash Pond C with a polyurethane grout in an attempt to reduce/eliminate the discharge from the structure. Additionally, sand bags have been placed along points of the berm/dam along Ash Ponds A and B to address overtopping of the berm. According to Dominion, seepage at Ash Pond A is influenced by standing water and heavy rain events. Toe seepage was observed along two points of the berm of Ash Pond B. A small amount of water was observed in Ash Pond C's discharge structure. (Photos 10-15)

Test pits were observed along Ponds A, B, and C to determine the depth and location of ash in the ponds. (Photo 16)

# VA DEQ Recon Inspection Report

Permit #

VA0002071

## EFFLUENT FIELD DATA:

Flow	<input type="text"/> MGD	Dissolved Oxygen	<input type="text"/> mg/L	TRC (Contact Tank)	<input type="text"/> mg/L
pH	<input type="text"/> S.U.	Temperature	<input type="text"/> °C	TRC (Final Effluent)	<input type="text"/> mg/L
Was a Sampling Inspection conducted? <input type="checkbox"/> Yes (see Sampling Inspection Report) <input checked="" type="checkbox"/> No					

## CONDITION OF OUTFALL AND EFFLUENT CHARACTERISTICS:

1. Type of outfall:	<input type="checkbox"/> Shore based	<input type="checkbox"/> Submerged	Diffuser?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2. Are the outfall and supporting structures in good condition?				<input type="checkbox"/> Yes	<input type="checkbox"/> No
3. Final Effluent (evidence of following problems):	<input type="checkbox"/> Sludge bar		<input type="checkbox"/> Grease		
	<input type="checkbox"/> Turbid effluent	<input type="checkbox"/> Visible foam	<input type="checkbox"/> Unusual color	<input type="checkbox"/> Oil sheen	
4. Is there a visible effluent plume in the receiving stream?				<input type="checkbox"/> Yes	<input type="checkbox"/> No
5. Receiving stream:	<input type="checkbox"/> No observed problems		<input type="checkbox"/> Indication of problems (explain below)		
<u>Comments:</u> Did not observe condition of outfalls and receiving stream channels.					

## REQUEST for CORRECTIVE ACTION:

None
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## NOTES and COMMENTS:

None
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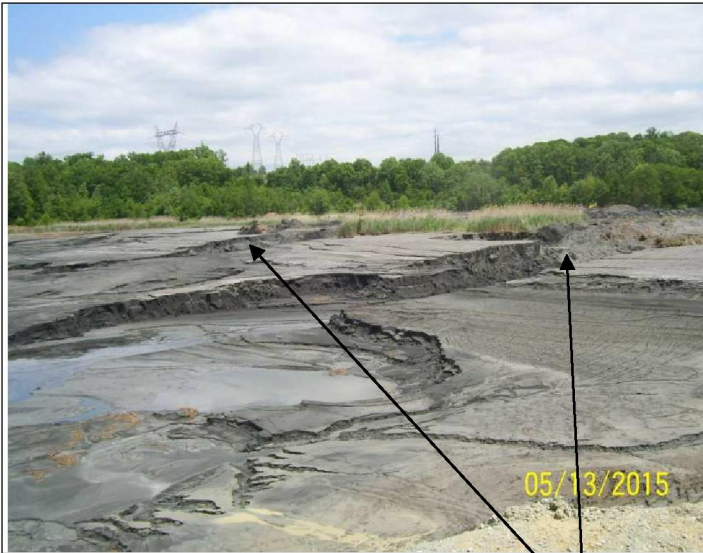


Photo 1: Dewatered Ash Pond E with dewatering trenches.



Photo 2: Riser structure and pumping infrastructure to pump water from Ash Pond E to Ash Pond D.



Photo 3: Floating intake on pump.



Photo 4: Inside Ash Pond E riser structure.



Photo 5: Outfall 005



Photo 6: Submersed intake pipe to pump water from Outfall 005 box back into Ash Pond E.



**Photo 7: Metal cleaning pond.**

**Photo 8: Ash Pond D and riser structure.**



**Photo 9: Piping from dewatering activities in Ash Pond E.**

**Photo 10: Sand bags installed along previously observed overtopping in Ash Pond A.**



**Photo 11: Sand bags installed along previously observed overtopping along Ash Pond A and gravel installed at previous beach (red arrow).**

**Photo 12: Sand bags installed along previously observed overtopping along Ash Pond A. Standing water evident behind bags.**



**Photo 13: Sand bags installed along previously observed overtopping along Ash Pond A.**



**Photo 14: Sealing of discharge structure in Ash Pond C.**



**Photo 15: Toe seepage along Ash Pond B's berm.**



**Photo 16: Test pits at Ash Ponds A, B, and C to determine extent of ash depth.**